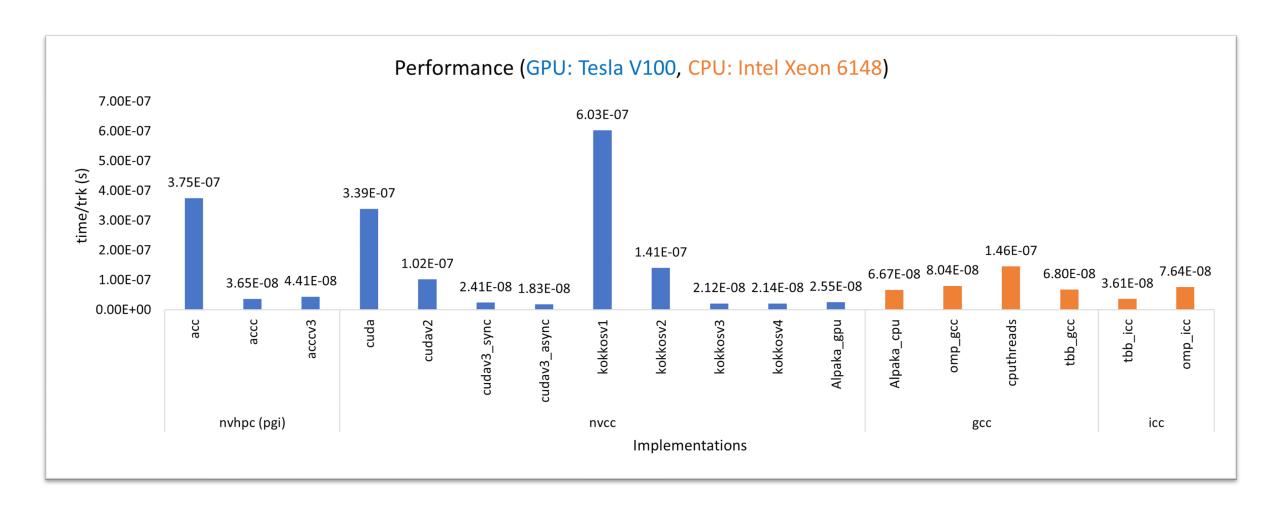
## Performance Testing Results



## Result Output

From alpaka GPU version with fast math optimization:	From alpaka GPU, kokkos GPU, and CUDA versions without fast math:	From alpaka CPU, and all the other CPU versions:
track in pos: -12.806847, -7.723825, 38.130142	track in pos: -12.806847, -7.723825, 38.130142	track in pos: -12.806847, -7.723825, 38.130142
track in cov: 6.29e-07, 7.53e-07, 9.63e-08	track in cov: 6.29e-07, 7.53e-07, 9.63e-08	track in cov: 6.29e-07, 7.53e-07, 9.63e-08
hit in pos: -20.782465 -12.241503 57.806763	hit in pos: -20.782465 -12.241503 57.806763	hit in pos: -20.782465 -12.241503 57.806763
produce nevts=100 ntrks=9600 smearing by=0.100000	produce nevts=100 ntrks=9600 smearing by=0.100000	produce nevts=100 ntrks=9600 smearing by=0.100000
NITER=5	NITER=5	NITER=5
done preparing!	done preparing!	done preparing!
track x avg=-20.778330 std/avg=0.100203	track x avg=-20.778337 std/avg=0.100205	track x avg=-20.778337 std/avg=0.100205
track y avg=-12.240009 std/avg=0.158667	track y avg=-12.239548 std/avg=0.164175	track y avg=-12.239547 std/avg=0.164191
track z avg=58.019833 std/avg=2.773084	track z avg=58.258480 std/avg=6.532563	track z avg=58.258862 std/avg=6.539643
track dx/x avg=-0.000149 std=0.008415	track dx/x avg=-0.000143 std=0.012875	track dx/x avg=-0.000143 std=0.012875
track dy/y avg=-0.000389 std=0.154646	track dy/y avg=-0.000359 std=0.149959	track dy/y avg=-0.000359 std=0.149963
track dz/z avg=-0.009522 std=2.157618	track dz/z avg=-0.009359 std=2.038208	track dz/z avg=-0.009359 std=2.038184
track pt avg=0.237291	track pt avg=0.237291	track pt avg=0.237291
track phi avg=-2.706547	track phi avg=-2.715236	track phi avg=-2.715246
track theta avg=0.369612	track theta avg=0.364810	track theta avg=0.364804